NAIKONMENI	AL	PRU		<b>FUN</b>	AGEN	
Offic	e of	Enfo	rcem	ent		

**CHAIN OF CUSTODY RECORD** PROJECT NAME Activity Code: 12345 PROJ. NO. 02AH50 Cheshire Monitoring study NO. 90101A SAMPLERS: (Print Name and Sign) AIR 20020080 OF Mike Murphy Mike Murphy CON-COMP GRAB TAINERS TIME STATION LOCATION STA, NO. DATE TAG NUMBERS 00:00 X 1 5-340224 1 to 1 D01 5/26 **GHS** 1 5-340225 1 to 1 S02 5/26 00:00 X **RVHS** 4 5-340226 1 to 1 S03 5/26 00:00 X **ADDAVILLE** SO1 5/26 00:00 X GHS 1 5-340223 1 to 1 645 # 3012, Psty Aug = 16.35 GHS# 3013, Porty Ave = 16.55 Addaville, Psta, Aug = 15.6 Relinquished by: (Signature) Date / Time Received by: (Signature) Ship To: M. A. Miles 5-2602 0855 Relinquished by: (Signature) (Śignature) Date / Time Received by: ATTN: Relinquished by: (Signature) Date / Time Received for Laboratory by: Date / Time Airbill Number (Signature) UPS#124011990140439074 Chain of Custody Seal Numbers

Sampler						
Mike Murphy Cooler ID 1	- and the supplying and the su	Page 5-1400	<u> </u>			
Sample ld: St	ation	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH50D01 D	)1	26/05/2002 00:00:00	Grab Com	GHS	1	5-340224 1 to 1
Bottle No.	1	Parameter PM10				41
Sample ld: St	ation	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH50S02 S0	)2	26/05/2002 00:00:00	○ Grab Com	RVHS	1	5-340225 1 to 1
Bottle No.	1	Parameter PM10		4		
Sample ld: St	ation	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH50S03 S0	3	26/05/2002 00:00:00	Grab Com	ADDAVILLE	1	5-340226 1 to 1
Bottle No.	1	Parameter PM10			S <sup>†</sup>	
Sample ld: St	ation	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbes
02AH50SO1 SC	)1	26/05/2002 00:00:00		GHS	1	5-340223 1 to 1

### CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set <u>AIR 2002 0080</u>	Cheshire Monitoring Study
23	PMIO

- Chain of Custody
- Reported in LIMS
- Transmittal Report w/signatures of the following:
  - Analyst(s)
  - Environmental Data Coordinator

Prepared by: Sylvia Triffin 6-20-03

Environmental Data Coordinator

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



#### REGION 5 CENTRAL REGIONAL LABORATORY

#### 536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

JUN 2 0 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY** 

From:

Edgar Santiago, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY** 

CRL data set number: 20020080

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH50D01, 2002AH50S01, 2002AH50S02,

and 2002AH50S03.

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P. THE DAY OF THE P. STEWARDS TO MINISTER AND A STANDARD TO STANDA
Data Management Coordinator and Date Received
Date Transmitted:
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
* * * * * * * * * * * * * * * * * * *
Received by and Date
Comments:

## CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <b>B</b> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method</u> Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS TeNtatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>
U	This flag in used when the analyte was analyzed for but <u>Undetected</u> in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

### ENVIRONMENTAL PROTECTION AGENCY REGION V CENTRAL REGIONAL LABORATORY

## FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 05/26/2002 LAB ARRIVAL DATE: 06/07/2002 DUE DATE: 06/28/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020080 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		
1	2002AH50D01	GUIDING HANDS SCHOOL	0.0413		
2	2002AH50S01	GUIDING HANDS SCHOOL	0.0431		
3	2002AH50S02	RVHS	0.0387		
4	2002AH50S03	ADDAVILLE	0.0424		
DATE (	OF ANALYSIS		06/12- 13/2002		
Al	NALYST		6.8		

Reviewed by: Date: 6/19/62		_	Date: 6/19/02	FA	Reviewed by:
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Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page of

Parameter:		Facility: <u>CHESHILE MON</u> CRL.SOP: <u>AIGO47</u>	1702110	
	Package Ove	erview:	YES	NO
Raw Data Pac	kage Complete?	7		
Results Repor	ted Correctly?	П		
Special Reque	ests Done?		NIA	
Calculations (	Checked?	8		
Calibration N	ot Exceeded?		NIA	
Manual Peak	Integration performed? Circle one	e IC or GC and Check	N/A	1
Field QC Che	ecked?		NIA	
	Ç	Quality Control:	*	
Holding Time	es Met?	h	NIA	
Preservation (	Checked?		N/A	
Proper Digest	tion Verified?		N/A	distriction and the second
Initial Instrun	nent Performance Checks Verified	1?		
Calibration V	erification Checked?		NA	e- 150,03002-53
Sample-Speci	ific QC (Internal Standards or Ana	alytical Spikes) Okay?	M/A	SSSS
Matrix QC Cl	hecked?		NIA	
Digestion Bla	nnks Checked?		NIA	
Spiked Blank	Checked?		NA	
LCS (if applied	cable) Checked?		4/4	
QCS (if appli	cable) Checked?		al A	
		Final Check		KI
Technical Re	view Done?	V	i	
Narrative Con	mplete?			
Analyst:	C.S. Peer	r Reviewer: 54-4		
Date:	6/13/02 Date	e: 6/14/02		
	Cor	mments Attached? (Y/N)		

 Data Set Number:
 20020080
 Parameter:
 Suspended Particles

 Facility Name:
 CHESHIRE MONITORING STUDY

 Study Name:
 CHESHIRE MONITORING STUDY

 Date of Narrative:
 06/13/2002
 Analyst:
 ES

 Signature:
 ES

#### **ANALYSIS CASE NARRATIVE**

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on June 07, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q8609560	2002AH50D01	5-340224
Q8609555	2002AH50S01	5-340223
Q8609558	2002AH50S02	5-340225
Q8609559	2002AH50S03	5-340226

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 06/12/2002 and was completed on 06/13/2002. All exposed filters were in good conditions. No sampler sn number was provided for filters Q8609558 and Q8609559 (CRL sample I.D number 2002AH50S02 and 2002AH50S03).

#### **QUALITY CONTROL (QC):**

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

#### **SAMPLE RESULTS:**

All the sample results are acceptable for use.

#### **ELECTRONIC DATA:**

No electronic data.

# CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020080, 20020081

Date of Analysis 06/12- 13/2002

Analyst:

ES

#### BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences	
Actual (g)	Balanced (g)	(g)	
		Limit +/-0.0005 g	
1.0000	1.0001	-0.0001	
2.0000	1.9999	0.0001	
5,0000	5.0001	-0.0001	

#### QC-SUMMARY FOR EXPOSED FILTERS

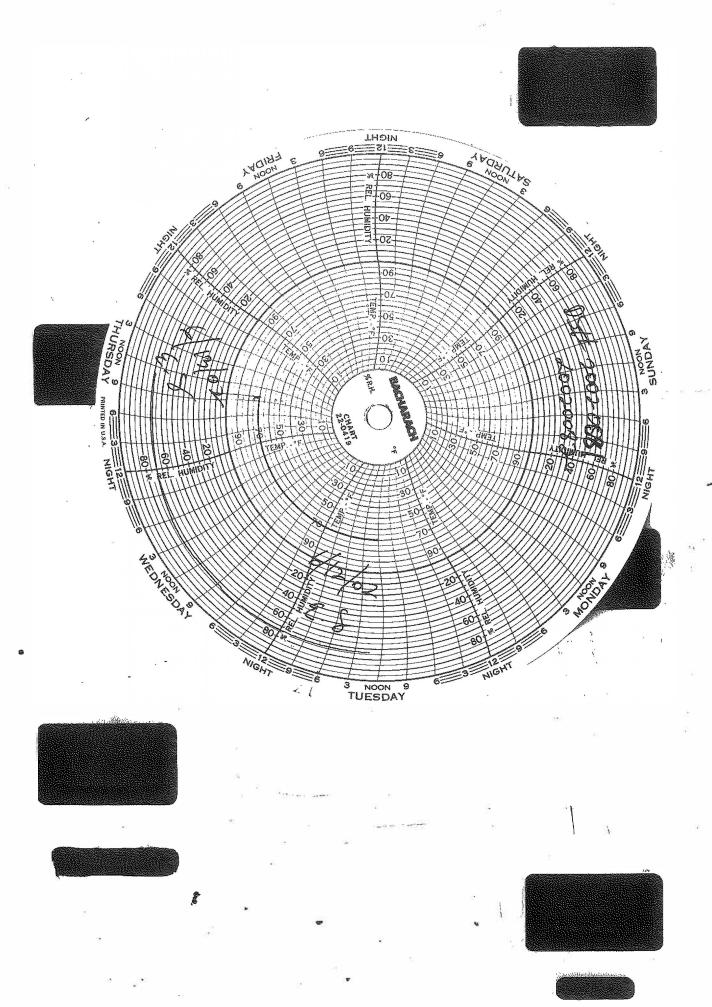
Filter ID	CRL Sample	Analysis	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Q8609559	2002AH50S03	06/13/02	Analyst 1	4.3767
Q8609559	2002AH50S03	06/13/02	Analyst 2	4.3762
Differences (Limit +/- !	5 mg)		*	0.0005

## CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
			The Control of the Co						T		
Data set No	umber 20020080					-3034340943000000				725714934 233	
Q8609560	2002AH50D01	06/01/02	Guiding Hands School	3013	16.55		0.00	4.3683	4.4096	0.0413	ERR
Q8609555	2002AH50S01	06/01/02	Guiding Hands School	3012	16.35	1110000	0.00	4.3580	4.4011	0.0431	ERR
Q8609558	2002AH50S02	06/01/02	RVHS		16.00		0.00	4.3507	4.3894	0.0387	ERR
Q8609559	2002AH50S03	06/01/02	Addaville		15.60		0.00	4.3343	4.3767	0.0424	ERR

SFILTER	TARE	DUP	EXPOSED	EXPOSED	Comments
J.D.	wt	wt	wt	wt DOP	
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			4 0 1		
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Q8609574	4.3944		44200	Course the State of the Property of the	
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08609571	4.4116		(-0.1)(0)-(-1.1)(-	(11.11.11.11.11.11.11.11.11.11.11.11.11.	. hy.
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9869568	4. 3413				
Q8609567	4.3699				
Q8609566	4.3652		4.4232		·
Q8609565	4.3893		4,4524		
Q8609564	4.3782		4.4429	4.4425A	na blulos
Q8609563	4.3914		4.5010		
0.8609562	4.4055				THE REPORT OF THE PARKS.
0.8609561	A 4050			(1.100)	
Q8609560	4.3683	4:3687	4.4096	4	
68609559	4.3343	, 0.2.0 /	4.3767	43762	PRET OF THE PROPERTY OF THE PR
Q8609558	4.3507		4.3894		
Q8609557	4.3532		4.3750	PERSONAL IN LINE	At At and a second on the second
0.8609556	4.3494		4.3771	# 100 (TIME TIPE TO 1015)	(W. 1911)
98609330 98609255	4.3580		4.4011	258	
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AIR 20020080 Preservative None SMMDBD Sample ID 02AH50D01 Sampler Mile Miles

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US EPA Region 5 Field Sample

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Parameters PM10

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Date 5.26-02

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